

Abstract

[062] An adapter, which allows the use of a complex multi-electrode pacing and sensing cardiac lead with a conventional one-channel cardiac pacing pulse generator has a connector that attaches to the multi-electrode cardiac lead, a multiplexer to select which of the electrodes of the multi-electrode cardiac lead are to be connected to the one channel cardiac pacing pulse generator, and a connector to connect the adapter to a connector such as the industry standard IS-1 connector. New therapies are developing requirements for both optimum-site pacing (rather than the traditional ventricular apex) and multi-site pacing to improve cardiac hemodynamics. These therapies require custom pulse generators that are capable of connecting to the multiple-electrode configurations required. This adapter allows a conventional one-channel cardiac pacing pulse generator to be connected to a multi-electrode cardiac lead and steers the output pulse to the desired set of electrodes.

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